

## Experiment: Series and Parallel Circuits

### OBJECTIVES

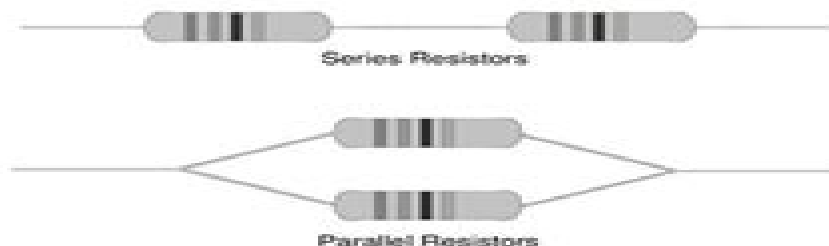
- To study current flow and voltages in series and parallel circuits.
- To use Ohm's law to calculate equivalent resistance of series and parallel circuits.

### MATERIALS

- |                                  |                              |
|----------------------------------|------------------------------|
| • Windows PC                     | • two 10- $\Omega$ resistors |
| • LabPro Interface               | • two 50- $\Omega$ resistors |
| • Logger Pro                     | • two 68- $\Omega$ resistors |
| • Current & Voltage Probe System | • momentary-contact switch   |
| • low-voltage DC power supply    | • connecting wires           |

Components in an electrical circuit are in *series* when they are connected one after the other, so that the same current flows through both of them. Components are in *parallel* when they are in alternate branches of a circuit. Series and parallel circuits function differently. You may have noticed the differences in electrical circuits you use. When using some decorative holiday light circuits, if one lamp burns out, the whole string of lamps goes off. These lamps are in series. When a light bulb burns out in your house, the other lights stay on. Household wiring is normally in parallel.

You can monitor these circuits using a Current and Voltage Probe System and see how they operate. The goal of this experiment is to study circuits made up of two resistors in series or parallel.



### PRELIMINARY QUESTIONS

1. How do series resistors affect current flow? What would you expect the effective resistance of two equal resistors in series to be, compared to the resistance of a single resistor?
2. How do parallel resistors affect current flow? What would you expect the effective resistance of two equal resistors in parallel to be, compared to the resistance of one alone?

# Lab 6 Electric Circuits Essentials Of Physics Answers

**Raffaela Di Napoli**



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